Code No.: DS514PE

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H.T.No.

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## CMR ENGINEERING COLLEGE: : HYDERABAD **UGC AUTONOMOUS**

## III-B.TECH-I-Semester End Examinations (Regular) - January- 2024 INTELLIGENT DATABASE SYSTEMS (CSD)

[Max. Marks: 70] [Time: 3 Hours]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question

			PART-A			(20 M	Iarks)		
1. a) b)	Compare and contrast by Imagine, you are work build a highly accurate given below.  Model 1: Decision Tree	ing on a time model. You model	e series da a started to	ataset. Your	manager has aske		[2M] [2M]		
	Model 2: Time series re At the end of evaluation	-		you found	that model 2 is be	etter than			
	model 1. What could be					recor trium			
c)	What is the difference l						[2M]		
	Compare and contrast b						[2M]		
d)				o databases			-		
e)	What are the applicatio						[2M]		
f)	Compare different type						[2M]		
g)	Analyze the syntax for				and queries.		[2M]		
h)	What are the external d	ata sources f	or KB syste	ems?			[2M]		
i)	Classify the various for	mal represen	tation lang	uages.			[2M]		
j)	Determine the various	key aspects o	f multimed	lia databases.			[2M]		
		P	ART-B			(50 N	Marks)		
2.	Make Use of Below table to answer questions 1-4.								
	Make Use of Below table to answer questions 1-4.  1.Using correct terminology, identify and describe all the components in Table.								
	2. What is the possible domain for field EMPJOBCODE?								
	3. How many records are shown?								
	4. How many attributes are shown?								
	5. List the properties of a table.								
	EMPLOYEE								
	EMPID	EMPLNAME	EMPINIT	EMPFNAME	EMPJOBCODE				
	123455	Friedman	A.	Robert	12				
		Olaneli	D	Delhert	181				
	123456 123457	Olanski Fontein	D. G.	Delbert Juliette	18				

3.	Discuss the three types of data models in an entity-relationship (ER) model.	[10M]
4.	Outline the working of hyper-semantic model.	[10M]
	OR	
5.	Explain how arbitrary database state transitions are implemented?	[10M]
6.	Discuss the applications of commercial deductive database systems.	[10M]
	OR	
7.	Explain how object database technologies are integrated?	[10M]

8.	Discuss the model extensions through metaclasses by TELOS.	[10M]
9.	OR Summarize the tight coupling manifest in KBS.	[10M]
10.	Compare and contrast the structured, semi-structured and unstructured data.  OR	[10M]
11.	Analyze the Applications of mediators to heterogenous systems.	[10M]